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# Operations Report

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CDF Weekly Meeting



# This Week's Stores

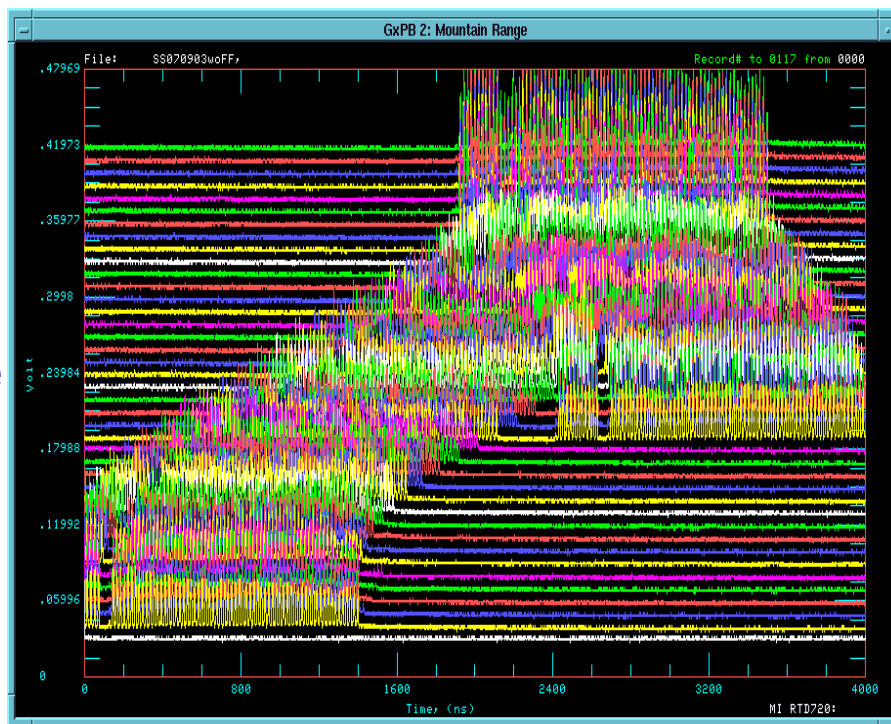
Date	Store	Inst Lum (initial)	Int Lum (delivered)	Lum to tape ( $\epsilon$ )	Physics Lum ( $\epsilon$ )
Th 7/10	2774	37.4e30	1622	1198 (73.9%)	1139 (70.2%)
Fr 7/11	2780	40.0e30	1575	1396 (88.7%)	1379 (87.6%)
Su 7/13	2783	33.3e30	1396	1248 (89.4%)	1248 (89.4%)
Mo 7/14	2786	32.4e30	1292	1201 (93.0%)	1201 (93.0%)
We 7/16	2792	32.2e30	120	100 (82.8%)	100 (82.8%)
Th 7/17	2795	23.9e30	Ongoing		
Total			6.00 pb <sup>-1</sup>	5.14 pb <sup>-1</sup> (85.7%)	5.07 pb <sup>-1</sup> (84.5%)



# Accelerator status

- Smooth running until Monday
  - Luminosity  $\sim 35\text{e}30$
  - Lost two stores by Tevatron RF trip:
    - Two stores at the same time (11:15 pm)
    - Under investigating the problem
    - Luckily both happened  $\sim 1$  hour before scheduled store end
- Tuesday morning  $\sim 5\text{am}$ 
  - Extremely severe thunderstorm
  - Most of the accelerator component were affected
  - TeV C4 frig building was hit by lightning
    - All the control, I/O modules were gone
    - Couldn't keep C4 magnet cool
    - took  $\sim 1$  day for recovery

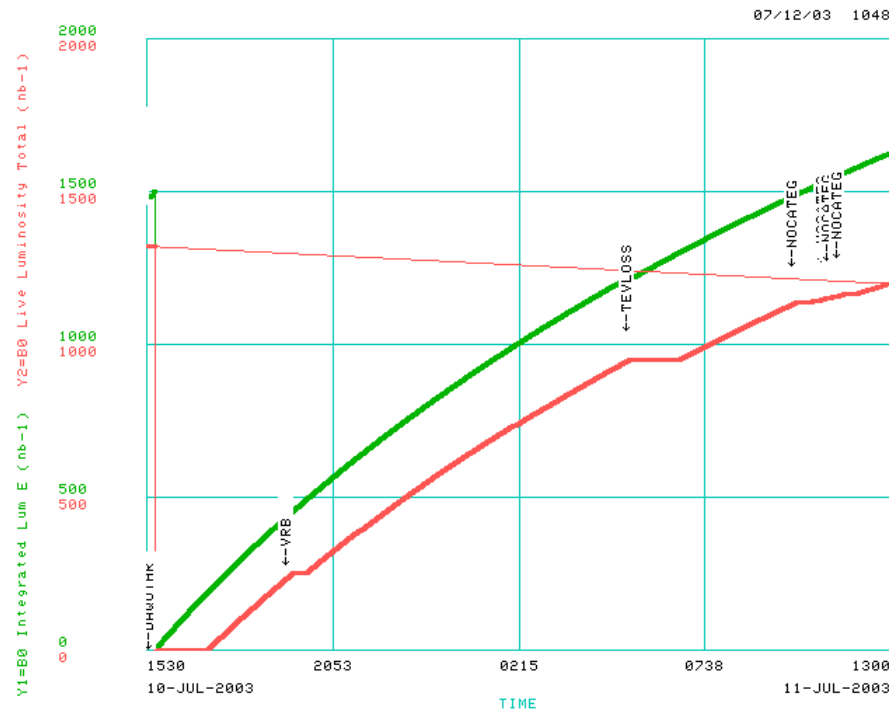
- A good news:
  - Significant progress in MI slip stacking last week





# Detector Status

- **b0dau30 crashes (store 2774)**
  - Adding new nodes to online cluster triggered an IRIX bug (Current OS version is 2 years old)
  - It happens 1hour before shot setup
  - Lost ~2hrs data beginning of store 2774
  - Upgrade OS this fall shutdown, improve communication between Ops and online.
- **Other problems**
  - **SVX HV control**
    - Problem for bring up HV
    - Trip in the middle of Run
  - **SVT beamline**
    - SVT beamline wasn't subtracted correctly past few weeks. It fixed from Wed. store



## –CMU trigger (Store 2795)

- Hot trigger channels
- Currently  $J/\psi$  dimuon trigger is masked off to avoid high deadtime
- We run trigger table test while debugging



# Summary/Plan

- No more thunderstorm
  - The next thunderstorm is coming...
    - Much smaller than Tuesday
  - I hope we can have summer shutdown in summer for the next year
- Data taking efficiency 85%
  - We want > 90%
    - Reduce down time
      - Improve L3/Evb stability
      - Run Startup/End time (L3)
      - SVX HV
    - Optimize number of tests
    - Reduce DAQ deadtime

